

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate

Number ST00670DE

This certificate, issued to **Bruce Aerospace, Inc.
101 Evans Ave.
Dayton, NV 89403**

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product—Type Certificate Number: **A28NM**
Make: **Airbus**
Model: **A319-100**

Description of the Type Design Change:

Installation of LED Floor Proximity Emergency Escape Path Marking System in accordance with Bruce Aerospace, Inc. Master Drawing List, Escape Path Marking Systems for A319 Aircraft document 710-038, Revision C, dated July 28, 2008, FAA approved August 12, 2008 or later FAA approved revision.

Limitations and Conditions:

1. Instructions for Continued Airworthiness (ICA), Bruce Aerospace, Inc. Document No. 351-240, Revision B dated July 16, 2008, or later FAA accepted revision must be made available to the operator at the time of installation.
2. A copy of this certificate must be maintained as part of the permanent records for the modified aircraft.
3. The installer must determine whether this design change is compatible with previously approved modifications.
4. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.
5. See continuation sheet for limitations and conditions of the LED Floor Proximity Emergency Escape Path Marking System.
6. See continuation sheet for Certification Basis.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: **March 28, 2008**

Date reissued:

Date of issuance: **August 12, 2008**

Date amended:



By direction of the Administrator

Melissa Sandow

(Signature)

**Melissa Sandow
Senior Engineer
Denver Aircraft Certification Office**

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number ST00670DE

Limitations and conditions are as follows:

Minimum Equipment List provisions of the LED Floor Proximity Emergency Escape Path Marking System:

1. LED Seat or Monument Mounted Markers (e.g. p/n BR9471-4) and Incandescent Seat or Monument Mounted Markers (e.g. p/n BR6184-001) in the Main Aisles –

Must be operative. Individual markers may be inoperative provided:

- a. The forward-most and aft-most seat or monument mounted marker in each section must be operative.
- b. The number of inoperative markers does not exceed 10% of the installed total.
- c. There are no adjacent inoperative markers.

2. LED Exit Identifiers (e.g. p/n BR9476-H-456) –

Must be operative. Individual exit identifiers may be inoperative provided:

- a. In each exit identifier, a minimum of eight LED elements remain operative.

NOTE An exit identifier that is missing a lens must be considered inoperative.

3. Incandescent Exit Identifiers (e.g. p/n BR9279-456) –

Must be operative. Individual exit identifiers may be inoperative provided:

- a. In each exit identifier, a minimum of three lamps remain operative.

NOTE An exit identifier that is missing a lens must be considered inoperative.

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number ST00670DE

Certification Basis

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for changes that are not significant in FAA Order 8110.48, the certification basis for the Airbus Model A319-100 series LED Floor Proximity Emergency Escape Path Marking System is as follows:

- a. The type certification basis for Airbus Model A319 series airplanes is shown on TCDS A28NM for parts not changed or not affected by the change.
- b. The certification basis for parts **changed or affected** by the change since the reference date of application, March 28, 2008, is based upon part 25 as amended by Amendment 25-123. Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for changes that are not significant in FAA Order 8110.48, the certification basis for this modification was determined to be:

Regulations at the amendment level in TCDS A28NM:

25.301(a)-(c), 25.303, 25.305(a)-(b), 25.307(a), 25.561(a)-(b), 25.601, 25.603(a)-(c),
25.605(a)-(b), 25.613(a), 25.789(a), 25.811(c), 25.1301(a)-(d), 25.1309(b),(d),(g),
25.1351(a), 25.1353(a)-(b), 25.1357(a), 25.1431(a),(c), 25.1519, 25.1529

Regulations at the latest amendment level at time of STC application:

21.33(a)-(b), 25.812(a)(1),(e),(i)-(k),(l)(1), 25.853(a), 25.869(a)(4), 25.981(a)(3),(b), 45.15(a)-(b)

-----END-----

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.